

CLAIMS

Please cancel claims 63, 65-67, 85, 86 and 73 and amend the claims as follow:

1 – 60. (Cancelled)

61. (Previously Presented) An isolated DNA molecule comprising a nucleic acid sequence which comprises SEQ. ID NO. 1.

62. (Withdrawn) The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 9.

63. (Cancelled)

64. (Currently Amended) The isolated DNA molecule of claim [[63]] 61, wherein the tissue-specific transcriptional regulatory DNA fragment is operatively linked to further comprising a nucleotide sequence encoding a heterologous expression product selected from the group consisting of β-galactosidase, luciferase, chloramphenicol acetyl transferase (CAT), green fluorescent protein (GFP), human growth hormone, alkaline phosphatase, β-glucuronidase, and combinations thereof.

65-67. (Canceled)

68. (Withdrawn) The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 8.

69. (Withdrawn) The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 7.

70. (Withdrawn) The isolated DNA molecule of claim 61, wherein the nucleic acid sequence further comprises SEQ. ID NO. 4.

71. (Previously Presented) A transgenic zebrafish comprising the isolated DNA molecule of claim 61.

72. (Previously Presented) The transgenic zebrafish of claim 71, wherein the transgenic zebrafish is a zebrafish embryo.

73. (Cancelled)

74. (Withdrawn) The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ ID NO. 9.

75. (Withdrawn) The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 8.

76. (Withdrawn) The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 7.

77. (Withdrawn) The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises SEQ. ID NO. 4.

78. (Currently Amended) The transgenic zebrafish of claim 71, wherein the isolated DNA molecule further comprises, operatively linked to an expression sequence of SEQ. ID No. 1, ~~operably linked to a DNA sequence encoding a heterologous expression product, wherein the expression sequence is selected from the group consisting of a portion of a zebrafish bone morphogenetic protein 4 promoter region, zebrafish bone morphogenetic protein 4 proximal regulatory sequences, zebrafish bone morphogenetic protein 4 distal regulatory sequences, and fragments thereof.~~

79. (Previously Presented) The transgenic zebrafish of claim 78, wherein the heterologous expression product is a reporter protein selected from the group consisting of β -galactosidase, luciferase, chloramphenicol acetyl transferase (CAT), green fluorescent protein (GFP), human growth hormone, alkaline phosphatase, β -glucuronidase, and combinations thereof.

80. (Previously Presented) The transgenic zebrafish of claim 79, wherein the reporter protein is green fluorescent protein.

81. (Previously Presented) The transgenic zebrafish of claim 78, wherein the expression sequence directs stable expression of the heterologous expression product.
82. (Currently Amended) The transgenic zebrafish claim 78, wherein the expression of the heterologous expression product is transmitted through the a germ line.
83. (Previously Presented) The transgenic zebrafish of claim 78, wherein the expression sequence and the sequence encoding the heterologous expression product are contained in an exogenous construct.
84. (Currently Amended) The transgenic zebrafish of claim 78, wherein the exogenous construct is integrated into the a genome of the transgenic zebrafish.
- 85-86. (Cancelled)
87. (Previously Presented) An isolated DNA molecule obtained from upstream regulatory region of a zebrafish bone morphogenetic protein 4 gene and having a nucleic acid sequence which comprises SEQ. ID NO. 1.
88. (Withdrawn) The isolated DNA molecule of claim 87, wherein the nucleic acid sequence further comprises SEQ. ID NO. 9.